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1 [Fast firewall implementations for software-based and hardware-base](#)

 Lili Qiu, George Varghese, Subhash Suri

June 2001 **SIGMETRICS '01: Proceedings of the 2001 ACM SIGMETRICS Measurement and modeling of computer systems**

Publisher: ACM 

Full text available:  [Pdf](#) (210.28 KB)

Additional Information: [full citation](#), [abstract](#)

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Routers must perform packet classification at high speeds to efficiently and diffserv. Classification can be based on an arbitrary number of field: classification quickly on an arbitrary ...

Also published in:

June 2001 **SIGMETRICS Performance Evaluation Review** Volume 29 Issue 1

2 [A chipset level network backdoor: bypassing host-based firewall & IC](#)

 Sherri Sparks, Shawn Embleton, Cliff C. Zou

March 2009 **ASIACCS '09: Proceedings of the 4th International Symposium on Communications Security**

Publisher: ACM 

Full text available:  [Pdf](#) (1.35 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 222, Download

Chipsets refer to a set of specialized chips on a computer's motherboard. In this paper we present a proof of concept chipset level rootkit/network backdoor interface card hardware based on ...

Keywords: hardware security, network backdoor, rootkit

3 [Virtualization technologies in transnational DG](#)

 Maurício Tsugawa, Andréa Matsunaga, José A. B. Fortes

May 2006 **dg.o '06: Proceedings of the 2006 international conference on**

Publisher: ACM

Full text available:  [Pdf](#) (140.00 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 26, Download

Naïve deployments of digital government (DG) systems across organization

face severe technical, sociopolitical and economical barriers. Some of the independently created IT infrastructures ...

4 Design of a high-performance ATM firewall

 Jun Xu, Mukesh Singh

August 1999 **Transactions on Information and System Security (TISS)**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(143.19 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 132, Download

A router-based packet-filtering firewall is an effective way of protecting unauthorized access. However, it will not work efficiently in an ATM network. The termination of end-to-end ATM connections at a ...

Keywords: TCP/IP, asynchronous transfer mode, firewall, packet filtering, security

5 Automated tools to implement and test Internet systems in reconfigurable hardware

 John W. Lockwood, Chris Neely, Chris Zuver, Dave Lim

July 2003 **SI GCOMM Computer Communication Review**, Volume 33 Issue 3

Publisher: ACM

Full text available:  [Pdf \(1.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 44, Download

Tools have been developed to automatically integrate and test networked hardware. These tools dynamically generate circuits for Field Programmable Gate Arrays (FPGAs). A Field Programmable Gate Array (FPGA) hardware-accelerated module has been developed ...

Keywords: Field Programmable Gate Array (FPGA), Internet, firewall, router, security, prevention, networks, reconfigurable hardware, tools

6 Designing a Safe Network Using Firewalls

Paul Wouters

August 1997 **Linux Journal**, Volume 1997 Issue 40es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [Html \(26.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 76, Download

It is by no means necessary to purchase specialized firewall hardware. A PC running on a \$400 386 PC-- provides as much protection as most commercial firewalls. The PC has the advantage of flexibility and ease of use.

7 Simulating Highly Dependable Applications in a Distributed Computing Environment

Yinong Chen, Zhongshi He

March 2003 **ANSS '03: Proceedings of the 36th annual symposium on Simulation of Dependable and Secure Systems**

Publisher: IEEE Computer Society

Full text available:  [Pdf \(151.17 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 24, Download

The aims of the research are to investigate techniques that support the development of dependable applications in a distributed system environment. Techniques include task allocation, load balancing, fault-tolerant computing ...

Keywords: Distributed system, task allocation, loadbalancing, firewall,...

8 [Shangri-La: achieving high performance from compiled network application programming](#)

 Michael K. Chen, Xiao Feng Li, Ruigi Lian, Jason H. Lin, Lixia Liu, Tao Liu, F. June 2005 **PLDI '05**: Proceedings of the 2005 ACM SIGPLAN conference on programming language implementation

Publisher: ACM 

Full text available:  Pdf (480.93 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 93, Downloaded by 1 user

Programming network processors is challenging. To sustain high line rates, extremely tight memory access and instruction budgets. Achieving desired performance required hand-coded assembly. Researchers have recently ...

Keywords: chip multiprocessors, dataflow programming, network processor, partitioning, throughput-oriented computing

Also published in:

June 2005 **SIGPLAN Notices** Volume 40 Issue 6

9 [Scalable packet classification](#)

 Florin Baboescu, George Varghese

February 2005 **IEEE/ ACM Transactions on Networking (TON)** , Volume 11, Number 1

Publisher: IEEE Press

Full text available:  Pdf (501.73 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 82, Downloaded by 1 user

Packet classification is important for applications such as firewalls, intrusion detection systems. Existing algorithms for packet classification reported in the literature use space as filter databases ...

10 [Scalable packet classification](#)

 Florin Baboescu, George Varghese

August 2001 **SIGCOMM '01**: Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM 

Full text available:  Pdf (242.61 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 50, Downloaded by 1 user

Packet classification is important for applications such as firewalls, intrusion detection systems. Existing algorithms for packet classification reported in the literature use space as filter databases ...

Also published in:

October 2001 **SIGCOMM Computer Communication Review** Volume 31 Issue

11 A student-managed networking laboratory

 **Paul B. Albee, Laura A. Campbell, Martin A. Murray, Christopher M. Tongen**
October 2007 **SIGITE '07: Proceedings of the 8th ACM SIGITE conference**

Publisher: ACM 

Full text available:  [Pdf \(1.04 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 88, Download

A major component of undergraduate Information Technology education environment. Attempting to provide an environment that is realistic, however, in a university setting. The major problems ...

Keywords: lab management, networking, student involvement, teaching

12 Fast and scalable packet classification using perfect hash functions

 **Viktor Puš, Jan Korenek**
February 2009 **FPGA '09: Proceeding of the ACM/SIGDA international symposium on field programmable gate arrays**

Publisher: ACM

Full text available:  [Pdf \(567.51 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 203, Download

Packet classification is an important operation for applications such as routers and switches in network systems. Many algorithms and hardware architectures for packet classification have been proposed, but none of them can compete with the ...

Keywords: fpga, packet classification, sram

13 A multi-part lab exercise for analyzing the effect of peer-to-peer software on campus networks

 **Brandon Wagner, Stephen Renshaw, Kent Broadbent**
October 2007 **SIGITE '07: Proceedings of the 8th ACM SIGITE conference**

Publisher: ACM 

Full text available:  [Pdf \(288.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 42, Download

Over the past few years, university campuses have dealt with peer-to-peer software. While it is easy to see the bandwidth consumption this software causes, its effect on campus networks and software have not been adequately studied ...

Keywords: campus network, network traffic monitoring, networking lab

14 Using Web Services in TMN environment

Lin Chen, Minglu Li

March 2005 **BSN '05: Proceedings of the IEEE EEE05 international workshop**

Publisher: IEEE Press

Full text available:  [Pdf \(138.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Full text available:  Pdf (540.76 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 209, Download Rank: 193

In today's interconnected world of computer networks, there exists a need to protect network transactions through the use of firewalls, Intrusion Detection Systems (IDS), and other hardware and software solutions. ...

Keywords: anomaly detection, data mining, data modeling, decision tree, intrusion detection, network security, signature detection

19 Context-agile encryption for high speed communication networks

 Lyndon G. Pierson, Edward L. Witzke, Mark O. Bean, Gerry J. Trombley

January 1999 **SIGCOMM Computer Communication Review**, Volume 29 Issue 1

Publisher: ACM

Full text available:  Pdf (1.43 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 15, Download Rank: 203

Different applications have different security requirements for data privacy and authentication. Encryption is one technique that addresses these requirements. This paper presents a context-agile encryption scheme designed for use in high-speed communications networks, ...

20 Packet classification using tuple space search

 V. Srinivasan, S. Suri, G. Varghese

August 1999 **SIGCOMM '99: Proceedings of the conference on Applications and protocols for computer communication**

Publisher: ACM 

Full text available:  Pdf (1.46 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 205, Download Rank: 202

Routers must perform packet classification at high speeds to efficiently support QoS and QoS routing. Packet classification requires matching each packet against a set of classification rules and forwarding the packet according to the rule ...

Also published in:

October 1999 **SIGCOMM Computer Communication Review** Volume 29 Issue 4

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